



Micro Commercial Components

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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- For general purpose applications
- These diodes features very low-turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- Marking : Cathode band and type number
- Moisture Sensitivity: Level 1 per J-STD-020C

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: 55°C to +150°C
- Maximum Thermal Resistance; 300°C/W Junction To Ambient

Electrical Characteristics @ 25°C Unless Otherwise Specified

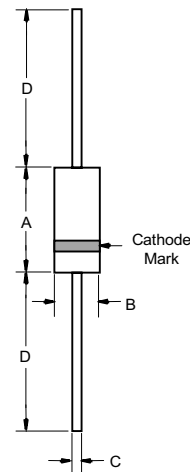
Repetitive Peak Reverse Voltage	V_{RRM}	100V	
Forward continuous Current	I_F	150mA ²⁾	$T_A = 25^\circ\text{C}$
Power Dissipation	P_{TOT}	150mW ²⁾	$T_A = 65^\circ\text{C}$
Junction Temperature	T_J	125°C	
Peak Forward Surge Current	I_{FSM}	750mA ²⁾	$T_p < 10\text{ms}$, $T_A = 25^\circ\text{C}$
Forward voltage pulse Test $t_p < 300\mu\text{s}$, at $V_R = 10\text{V}$, $T_J = 60^\circ\text{C}$, $\delta < 2\%$	V_F	0.25V 0.45V 1V	$I_F = 0.1\text{mA}$ $I_F = 10\text{mA}$ $I_F = 250\text{mA}$
Leakage current pulse test $t_p < 300\mu\text{s}$, $\delta < 2\%$	I_R	0.5 μA 0.8 μA 2 μA 5 μA	$V_R = 1.5\text{V}$ $V_R = 10\text{V}$ $V_R = 50\text{V}$ $V_R = 75\text{V}$
Typical Junction Capacitance	C_J	6pF	Measured at 1.0MHz, $V_R = 1\text{V}$
Reverse Recovery Time	T_{rr}	5nS	$I_F = 10\text{mA}$ $V_R = 6\text{V}$ $R_L = 100\Omega$

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.
 2. Valid provided that electrodes are kept at ambient temperature

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Small Signal Schottky Diode

DO-35



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

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Figure 1. Forward current versus forward voltage at different temperatures (typical values)

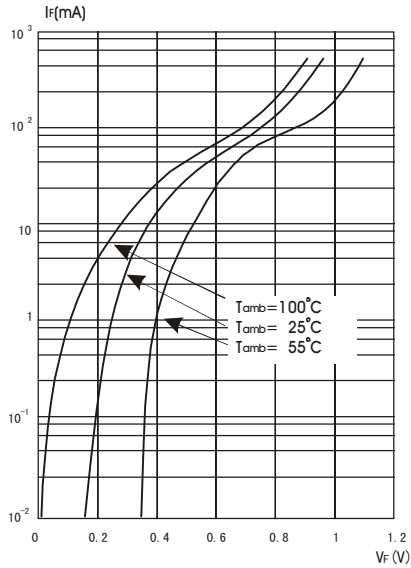


Figure 2. Forward current versus forward voltage (typical values)

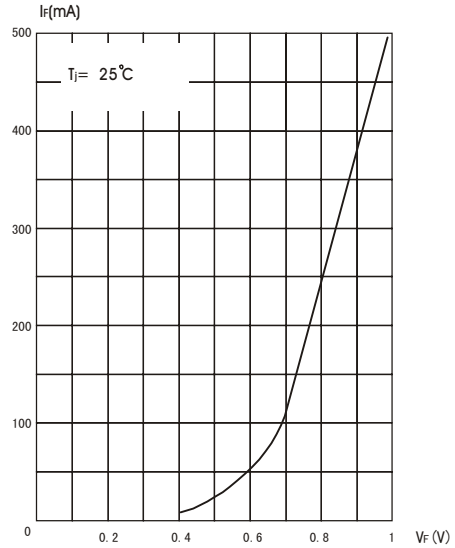
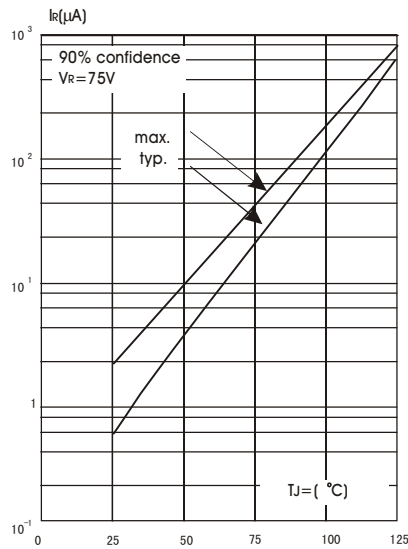


Figure 3. Reverse current versus junction temperature (typical values)



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Figure 4. Reverse current versus continuous Reverse voltage

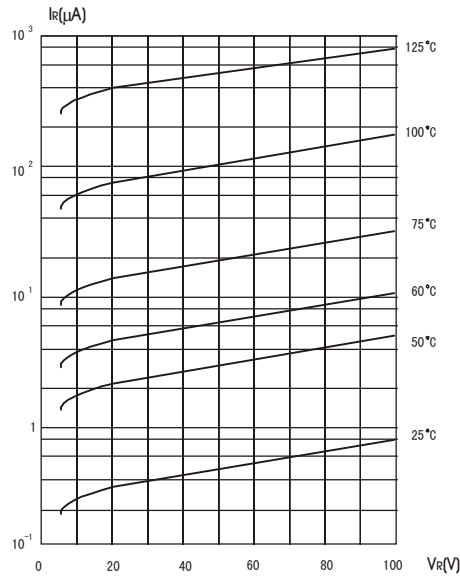
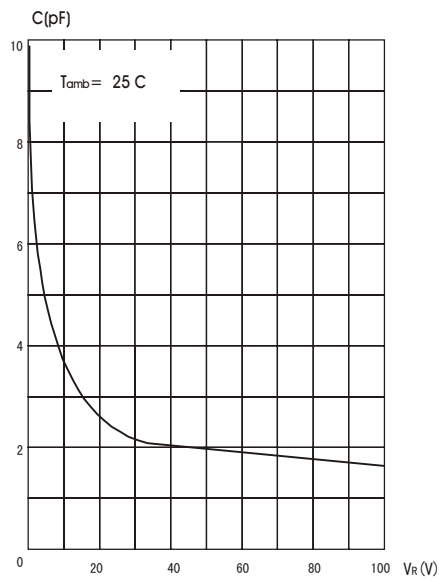


Figure 5. Capacitance C versus reverse applied voltage V_r (typical values)





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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 10Kpcs/Reel
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox
(Part Number)-BP	Bulk;500pcs/Bag

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